

5. (Original) The electronic device recited in Claim 1 further comprising:

an input bus coupled to the plurality of transmitter resources, the input bus for receiving data signals to be process by the plurality of transmitter resources.

6. (Original) The electronic device recited in Claim 5 wherein the input bus communicates information to the plurality of transmitter resources in a serial manner.

7. (Currently amended) The electronic device recited in Claim 1 further comprising:

a processor coupled to the plurality of transmitter resources; and
a computer readable memory coupled to the processor, the computer readable memory containing instructions and data that, when executed on the processor, implement a method for scheduling the plurality of transmitter resources to apply transmission signals to the output bus.

8. (Currently amended) The electronic device recited in Claim 7 wherein the method for scheduling the plurality of transmitter resources comprises the steps of:

a) providing an enabling signal from the computer readable memory to only a transmitter resource slated for a given antenna of a plurality of antennae; and

b) transmitting operating information to operate only the transmitter resource slated for the given antenna.

9. (Original) The method recited in Claim 8 wherein the method further comprises the step of:

a processor coupled to the computer readable memory, the computer readable memory containing instructions and data that, when executed on the processor, implement a method for operating the configurable transmitter resource; and

a configurable modulator coupled to the processor, the configurable modulator including a selective interconnect for selectively providing one of a plurality of data samples for modulating a data signal.

21. (Withdrawn) The configurable transmitter resource recited in Claim 20 wherein the modulator is configurable to modulate data for a plurality of modulations schemes.

22. (Withdrawn) The configurable transmitter resource recited in Claim 20 wherein the plurality of channel format information stored in the slot format table includes any combination of puncturing information, slot size, spreading factor, or identification of a source of data.

23. (Withdrawn) The configurable transmitter resource recited in Claim 20 further comprising:

at least one parameterizeable interface coupled to the local computer readable memory, the parameterizeable interface configurable to any one of the plurality of transmission signal types designated by control information.

24. (Withdrawn) A configurable modulator for processing a data signal, the configurable modulator resource comprising:

a memory having a plurality of shift register taps coupled sequentially, the memory storing a stream of data values;

a selective interconnect coupled to a portion of the plurality of shift register taps that represent a given modulation scheme; and

a) providing an enabling signal from the computer readable memory to select only one of the plurality of the transmitter resource resources for driving a given antenna; and

b) ~~transmitting~~ providing operating information to operate only the transmitter resource driving a the given antenna.

30. (Original) The electronic device recited in Claim 29 wherein the method for scheduling the transmitter resources further comprises the step of:

c) transferring control from a first list in memory for scheduling antennae to a second list in memory for scheduling transmitter resources only destined for a given antenna.

31. (Currently amended) The electronic device recited in Claim 30 wherein the method for scheduling the transmitter resources further comprises the step of:

d) returning control from the second list for scheduling transmitter resources to the first list for scheduling ~~antenna~~ antennae when the second list is exhausted.

32. (Currently amended) The electronic device recited in Claim ~~30~~ 31 wherein the method for scheduling the transmitter resources further comprises the step of:

e) repeating steps a) through d) in a serial manner for a plurality of antennae.

33. (Original) The electronic device recited in Claim 29 wherein the method for scheduling the transmitter resources further comprises the step of:

c) disabling the operating information stored in the memory for a channel that desires to stop transmitting from a given antenna.

34. (Original) The electronic device recited in Claim 29 wherein the method for scheduling the transmitter resources further comprises the step of:

